



SINCLAIR OIL & GAS COMPANY

September 14, 1965

SEP 15 PM 1 1965

WFX-219

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New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

ATTENTION: Mr. A. L. Porter, Jr.

Dear Sir:

Sinclair Oil & Gas Company is the operator of the Keel-West Waterflood located in Sections 3, 4, 5, 6, 7, 8, 9, and 10, T-17-S, R-31-E, Eddy County, New Mexico.

In reviewing our records and procedures in complying with Federal and State requirements, we have discovered that we are in error in complying with paragraph three of Commission Order No. R-2268-A dated October 17, 1963; wherein approval is required by the Commission and the State Engineer, of the casing and tubing program prior to expansion. Since these were Federal leases, we filed for approval with the USGS, and upon receipt of same, converted to water injection in the manner as prescribed by Commission Order No. R-2268-A.

To date, we have completed Stage 1, Stage 2, and Stage 3 (with the exception of the conversion of Keel "A" No. 5, 7, and 14 and Keel "B" No. 2, 4, and the drilling of one well on the West "B" Lease). Initially all wells, with the exception of West "B" No. 14, 17, 19, and 23, were completed by injecting thru tubing below a packer set near the original casing seat, or set into the top of a cemented liner. At a later date, Keel "B" No. 7, 17, 29, and "A" No. 12 were converted to duals and completed by injecting down the casing in the upper zone and thru tubing below a packer in the lower zone. West "B" No. 14, 17, 19, and 23 were dualled in the same manner.

As a matter of interest, we have determined that all of the water injection wells completed to date, except West "A" No. 13, have surface casing set into the top of the Rustler. The only available information in this office indicating the quality of water found in the Rustler formation shows the PPM NaCl to range from 11,515 PPM at 410 to 425 feet, and 63,568 PPM from 565 to 580 feet. This water is found on our Turner Lease in Sec. 29, T-17-S, R-31-E.

We are currently injecting fresh water thru a closed system with a bactericide additive at a maximum pressure of 2,400 pounds; however, we plan to supplement our present injection supply with produced water. A recent analysis of the produced water ranges from 12,000 to 86,000 PPM chlorides.



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

September 28, 1965

S. E. REYNOLDS
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, NEW MEXICO 87501

MAILED

SEP 31 1965

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the letter of Mr. W. F. Burns, Superintendent for Sinclair Oil & Gas Company dated September 14, 1965 which pertains to their Keel West Waterflood and refers to Commission Order No. R-2268-a.

This office offers no objection to the proposal set forth by Sinclair except with regard to the Keel West "A" No. 13.

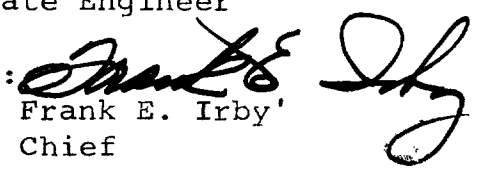
In view of the fact that surface casing is set 30 feet above the Rustler, in the Keel West "A" 13, in a formation of sand or shale in which the permeability is questionable, it is my recommendation that if this well is converted to a dual injector at some later date, that the injection be through two strings of tubing rather than allowing injection down the casing-tubing annulus to one of the zones receiving injection fluid.

I have made this decision without benefit of schematic diagrams of the wells which have been requested by your office. Mr. Singleton has promised to furnish me prints of the diagrams but I do not feel that examination of the diagrams will change my conclusions.

FEI/ma
cc-F. H. Hennighausen
Sinclair Oil & Gas Co.

Yours truly,

S. E. Reynolds
State Engineer

By: 
Frank E. Irby
Chief
Water Rights Div.

TEST & WELL NUMBER	COMP. DATE	SIZE & DEPTH OF SURFACE CASING	CEMENT TOP	DEPTH OF PRODUCING STRING	CEMENT TOP	CEMENTED LINER	GROSS COMP. INTERVAL	PACKER SETTING	RUSTLE
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LEASE & WELL NUMBER	COMP. DATE	SIZE & DEPTH OF SURFACE CASING	CEMENT TOP	DEPTH OF PRODUCING STRING	CEMENT TOP	CASED LINER	GROSS COMP. INTERVAL	PACKER SETTING	RUSTLE
DUAL COMPLETIONS (CONT'D)									
West B #14	1-11-58	8 5/8"-762'	100sx	7"-3563'	2585'*	None	3343-3632'	3368'	542'
West B #17	10-20-58	10 3/4"-747'	100sx (Clrc)*	5"-3670'	527'*	None	3296-3624'	3422'	497'
West B #19	2-8-59	10 3/4"-785'	100sx (Clrc)*	5 1/2"-3501'	2929'*	None	3378-3585'	3466'	572'
West B #23	9-10-59	8 5/8"-797'	100sx (Clrc)*	5"-3456'	2901'*	None	3374-3557'	3447'	580'
NEW WELLS									
Keel B #28(X)	11-10-64	8 5/8"-550'	225sx (Clrc)*	4 1/2"-3800'	2220'	None	3118-3800'	3069'	382'
Keel B #29 @	11-12-64	8 5/8"-555'	220sx (Clrc)*	4 1/2"-3700'	1690'	None	2996-3660'	3288'	382'
West A #13(X)	10-27-64	8 5/8"-555'	220sx (Clrc)*	4 1/2"-3700'	1820'	None	3419-3686'	3385'	580'
West B #28(X)	12-29-63	8 5/8"-550'	240sx (Clrc)*	5 1/2"-3850'	2020'	None	3289-3849'	3220'	520'
West B #29(X)	1-22-64	8 5/8"-559'	240sx (Clrc)*	5 1/2"-3810'	1800'	None	3232-3804'	3168'	480' 460' #
@ Shown Twice # Calculated Top * Theoretical Plug X Single Injection Completions									

**KEEL-WEST WATERFLOOD
COMPLETION DATA**

Stage 1, 2, and a Portion of Stage 3 Expansions

LEASE & WELL NUMBER	COMP. DATE	SIZE & DEPTH OF SURFACE CASING	CEMENT TOP	DEPTH OF PRODUCING STRING	CEMENT TOP	3" STUT LINER	GROSS COM. INTERVAL	PACKER SETTING	RUSTLEF
<u>SINGLE COMPLETIONS</u>									
Keel A #9	9-1-50	10 3/4"-541'	110sx (Circ)*	4 1/2"-3611' 7"-2816'	Circ. 546'*	None	2928-3550'	2913'	257' #
Keel A #10	10-23-50	10 3/4"-537'	350sx (Circ)*	4 1/2"-3580' 7"-2809'	1850' 1400'*	None	2908-3571'	2879'	385' #
Keel B #8	7-12-51	10 3/4"-596'	100sx (Circ)*	7"-2945'	1376'*	4 1/2"-2750- 3400'	3008-3298'	2943'	372' #
Keel B #12	1-1-52	10 3/4"-615'	100sx (Circ)*	7"-3036'	1706'*	5"-2937- 3730'	3088-3676'	3024'	442' #
Keel B #13	1-25-52	8 5/8"-609'	100sx (Circ)*	7"-2992'	270sx (Circ)*	5"-2942- 3735'	3054-3714'	3004'	492' #
Keel B #16	6-9-52	8 5/8"-639'	100sx (Circ)*	7"-3078'	200sx (Circ)*	5"-3002- 3765'	3140-3756'	3113'	472' #
West B #9	6-11-52	8 5/8"-678'	100sx (Circ)*	7"-3089'	200sx (Circ)*	5"-3000- 3780'	3158-3729'	2979'	450'
West B #10	4-14-53	8 5/8"-642'	100sx (Circ)*	7"-3097'	270sx (Circ)*	4 1/2"-3010- 3612'	3161-3435'	3040'	583'
<u>DUAL COMPLETIONS</u>									
Keel A #12	8-11-54	8 5/8"-568'	100sx (Circ)*	7"-2853' 4 1/2"-3610'	200sx (Circ)* 1960'	None	2954-3588'	2909'	272' #
Keel B #7	7-10-51	10 3/4"-600'	100sx (Circ)*	7"-2916'	1347'*	2833-3381'	2990-3258'	3137'	342' #
Keel B #17	12-2-52	8 5/8"-561'	100sx (Circ)*	7"-2837' 4 1/2"-3615'	200sx (Circ)* 560'	None	2965-3601'	3230'	290' #
Keel B #29 @	11-12-64	8 5/8"-551'	220sx (Circ)*	4 1/2"-3700'	1690'	None	2996-3660'	3288'	382' #

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

See other
specimens on
this report

Form approved
Budget Bureau No. 17 R257.5.

LEASE DESIGNATION AND SERIAL NO.
Las Cruces 029435 (a)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP EN ☒ PLUG BACK ☐ REFR. RESUR. ☐ Other **Convert to XIV**

2. NAME OF OPERATOR
Sinclair Oil & Gas Company

3. ADDRESS OF OPERATOR
P. O. Box 1920, Hobbs, New Mexico, 88240

4. LOCATION OF WELL - Report location clearly and in accordance with any State requirements.
At surface **1980' from North line and 1980' from the East line**
At top prod. interval reported below
At total depth **as above**

6. IF INDIAN ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
J. L. Keel "A"

9. WELL NO.
9

10. FIELD AND POOL OR WILDCAT
Grayburg-Jackson

11. SECTION, TOWNSHIP, RANGE AND COUNTY
Sec. 7-T17S-R31E RM PM

12. COUNTY OR TERRITORY
Okay

13. STATE
New Mexico

15. DATE SET DOWN 16. DATE REACHED 17. DATE **12-3-64 12-4-64 12-19-64** 18. DEPTH IN FEET **3747 CM**

20. TOTAL DEPTH, MD & TVD 21. PLUG BACK TD, MD & TVD 22. DEPTH TO TOP OF PRODUCE **3611' 3601' 3485'-3611'**

24. PRODUCE INTERVALS OF THIS COMPLETION TO BE LISTED IN ORDER OF DEPTH
Injection 2928-3550' (Grayburg Jackson)

26. TYPE ELECTRIC AND OTHER LOGS RUN
Gamma Neutron Collar log

28. CASING RECORD (Report all strings set in well)
CASING SIZE **4-1/2" OD** WEIGHT LB/FT **9.52** DEPTH, SEC. CM **3611'** SIZE **6"** CEMENTED **325 cks.**

29. LINER RECORD
SIZE **2-3/8"** DEPTH, SEC. CM **2913'** DEPTH, SEC. CM **2913'**

31. PRODUCTION RECORD (Interpret size and number)
Metex 2928-321', 2937-441', Square Lake 2976-87', Vacuum 3162-3171', Jackson 3388-94', 3407-14', 2928-14', 3450-34', 3473-80', 3485-90', 3497-3502', 3511-16', 2976-87', 3519-24', 3537-42' & 3547-50' w/ 162 - 3/8" holes 3162-71', 3388-3550'
250 gals. MDA
250 gals. MDA
500 gals. MDA
1400 gals. MDA

33. PRODUCTION
DATE FIRST PRODUCTION **12-19-64** PRODUCTION METHOD **Water Injection** WATER INJECTED **Injecting**

DATE OF TEST FLOW, TUBING PRESS. FLOW, TUBING PRESS.

34. DISPOSITION OF GAS (Solid, used for fuel, vented, etc.)

35. LIST OF ATTACHMENTS

36. SIGNATURE OF OPERATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUP TE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42 R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. Las Cruces 009435-4	
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☒ PLUG BACK ☐ DIFF. RESVR. ☐ Other Water Injection		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Sinclair Oil & Gas Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 1940, Hobbs, New Mexico		8. FARM OR LEASE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface 1940' from SL and 600' from SL of Sec. 7-T17S-R31E At top prod. interval reported below At total depth as above		9. WELL NO. 10	
14. PERMIT NO.		10. FIELD AND POOL OR WILDCAT Grayburg-Jackson	
DATE ISSUED		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 7-T17S-R31E NW PM	
15. DATE SPUNDED 10-21-64		12. COUNTY OR PARISH ddy	
16. DATE T.D. REACHED 10-30-64		13. STATE New Mexico	
17. DATE COMPLETION (If not to prod.) 11-11-64		18. ELEVATIONS (DI, B&B, RT, GR, ETC.) 3711' OM	
19. ELEV. CASINGHEAD		20. TOTAL DEPTH, MD & TVD 3540'	
21. PLUG BACK T.D., MD & TVD 3578'		22. IF MULTIPLE COMPLET. HOW MANY?	
23. INTERVALS SKIPPED IN		24. INTERVALS SKIPPED IN	
25. PRODUCING INTERVALS OF THIS COMPLETION TOP BOTTOM NAME MD AND TVD 2908-3571' (Grayburg Jackson)		26. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma-Neutron Log		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)		29. LINER RECORD	
30. CEMENTING RECORD		31. ACID, SHOT, FRACTURE CEMENT SQUEEZE, ETC.	
32. PRODUCTION RECORD		33. PRODUCTION RECORD	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)		35. LIST OF ATTACHMENTS	
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.		37. SIGNED	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

L-10 07000 029433 (b)

6. IF INDIAN ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other **Water Injection**

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☒ PLUG BACK ☐ DIFF. RESVR ☐ Other ☐

2. NAME OF OPERATOR

Sinclair Oil & Gas Company

3. ADDRESS OF OPERATOR

520 East Broadway, Hobbs, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface **660 ft N & E lines of Sec 8 - T17S - R 31E Eddy County,**
At top prod. interval reported below **New Mexico**

At total depth

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

J. L. Keel "B"

9. WELL NO.

12

10. FIELD AND POOL OR WILDCAT

11. SECTION, RANGE, MERIDIAN AND SURVEY OR AREA

Sec. 8 T17S R31E N4M

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

15. DATE SPUDDED 16. DATE TD REACHED 17. DATE COMPLETED (Revised to prod.) 18. TOTAL DEPTH OF WELL (GR, ETC.) 19. Casinghead

12/20/63**12/27/63****1/4/64****3849' (GR)**

20. TOTAL DEPTH, MD & TV

3730

21. PLUG BACK TD, MD & TV

3719

22. CASING DEPTH, MD & TV

ROTARY LOGS

3551-3730

CABLE LOGS

0 - 3551

24. PRODUCING INTERVALS OF THIS COMPLETION (For full name, see page 2)

Water Injection Well

26. TYPE ELECTRIC AND OTHER LOGS RUN

R-R Collar log

27. WAS WELL CORED?

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	AMOUNT SET	AMOUNT FILLED
10 3/4"	32.75#	620	12 1/2"	100 sacks	None
7"	20#	3036	8 5/8"	200 sacks	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SAKES CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
5"	2937	3730	150 sks		2"	3024	3024

31. PERFORATION RECORD (Interval, size and num.)

3088-94; 3125-3137; 3274-3284; 3346-3360;
3423-3432; 3604-3608; 3649-3653; 3670-76
Total of 200 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3604-08 - 3676	1000 gals BDA
3423 - 32	500 gals Mud acid
3346 - 3360	500 gals Mud acid
3274 - 3284	500 gals mud acid

33.*

PRODUCTION

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping) Size and type of pump

Water Injection Well

WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKED SIZE	FLOW, GPM	WATER-BUL	GAS-OIL RATIO

FLOW, TUBING PRESS. CASING PRESSURE CALCULATED 24 HOUR RATE

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

GAS VENTED BY

35. LIST ATTACHMENTS

I hereby certify that the foregoing and attached information is true and correct as far as it relates to the well.

District Superintendent

Jan. 6, 1964

* (See Instructions and Specifications on Reverse Side)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPL

(See other
instructions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:		OIL WELL ☐	GAS WELL ☐	DRY ☒	Other <u>Water Injection</u>		
b. TYPE OF COMPLETION:		NEW WELL ☐	WORK OVER ☐	DEEP-EN ☒	PLUG BACK ☐	DIFF. RESVR ☐	Other
2. NAME OF OPERATOR <u>Minclair Oil & Gas Company</u>						5. LEASE DESIGNATION AND SERIAL NO. <u>Las Cruces 029435 (b)</u>	
3. ADDRESS OF OPERATOR <u>520 E. Broadway, Hobbs, New Mexico</u>						6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface <u>660' fr So. line & 1980' fr East line Sec 5-T17S-R31E</u> <u>Edgy County, N.M.</u> At top prod. interval reported below At total depth						7. UNIT AGREEMENT NAME	
11. PERMIT NO.						12. COUNTY OF PARISH <u>Edgy</u>	
13. STATE <u>N.M.</u>						14. FIELD AND POOL, OR WILDCAT <u>Grayburg-Jackson</u>	
15. DATE SPUDDED <u>12/27/63</u>						16. DATE T.D. REACHED <u>1-4-64</u>	
17. DATE COMPLETION (Ready to prod.) <u>1-22-64</u>						18. ELEVATIONS (OF RKB, RT, GR, ETC.)* <u>3845 (GR)</u>	
20. TOTAL DEPTH, MD & TVD <u>3737'</u>		21. PLUG, BACK T.D. MD & TVD <u>3715'</u>		22. INTERV. S. DRILLED BY <u>3497-3737</u>		23. CABLE TOOLS <u>0-3497</u>	
24. PRODUCING INTERVAL(S) OF THIS COMPLETION (TOP BOTTOM NAME MD AND TVD)* <u>Injection well perf's 3054-3714 Grayburg San Andres</u>						25. WAS DIRECTIONAL SURVEY MADE <u>Yes</u>	
26. TYPE ELECTRIC AND OTHER LOGS RUN <u>Gamma-ray neutron & caliper</u>						27. WAS WELL CORED <u>No</u>	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB. FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED		
<u>8 5/8"</u>	<u>Spiral weld</u>	<u>609'</u>	<u>10"</u>	<u>200 sacks</u>	<u>none</u>		
<u>7"</u>	<u>200'</u>	<u>2992</u>	<u>8 5/8"</u>	<u>200 sacks</u>	<u>none</u>		
29. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
<u>5"</u>	<u>2942</u>	<u>3735</u>	<u>200</u>		<u>2 3/8"</u>	<u>3004</u>	<u>3004</u>
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
<u>3054-60; 3135-46; 3236-58; 3312-20; 3328-3340; 3572-80; 3638-44; 3672-76 & 3706-14</u> <u>with total of 174 - 3/8" jet shots</u>				<u>3054 - 3714</u> <u>4500 gals. acid</u>			
33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD <u>Flowing, gas lift, pumping, etc. and type of pump</u>				WELL STATUS (Production or shut-in)	
<u>Water Injection</u>							
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PERIOD FOR TEST PERIOD	OIL BBL	GAS BBL	WATER BBL	GAS-LIFT RATIO
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24 HR. RATE	OIL BBL	GAS BBL	WATER BBL	OIL GRAVITY (API. 100°)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)							
35. LIST OF ATTACHMENTS							
36. I hereby certify that the foregoing and attached information is complete and correct as furnished from all available records.							

SIGNED

District Superintendent

Jan. 27, 1964

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.

Las Cruces 029635 (b)

6. IF INDIAN, ALIQUOT OR TRIBE NAME

1a. TYPE OF WELL:

OIL WELL ☐ GAS WELL ☐ TRY ☐ Other **Water Injection**

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP EN ☒ PLUG BACK ☐ DEEP LESVR ☐ Other **65 S**

2. NAME OF OPERATOR

Sinclair Oil & Gas Company

3. ADDRESS OF OPERATOR

520 East Broadway, Hobbs, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface **1980' FSL & 660' FSL See 5-T173-R31E**

At top prod. interval reported below

At total depth

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

J. L. Keel "B"

9. WELL NO.

16

10. FIELD AND POOL OR WILDCAT

Grayburg-Jackson

11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA

Sec 5-T173-R31E WPM

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

15. DATE SPUNDED

12-18-63

16. DATE

1-3-64

17. DATE WELL

1-15-64

DATE CURED

3895 CR

20. TOTAL DEPTH, MD & TVD

3780

21. PLUG BACK TO MD & TVD

3757

24. PRODUCING INTERVALS OF THIS COMPLETION

Water injection well

26. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma, Neutron & Caliper

28.

CASING RECORD - Report all casing sizes and depths

CASING SIZE	WEIGHT, LB/FT	DEPTH SETTING	DATE SET	EX. NO. OF JOBS	AMOUNT USED
8 5/8"	24.7	639	10	100 sacks	None
7"	26.3	3081	8	200 sacks	None

29.

CASING RECORD

LOGGING RECORD

SIZE	TOP (MD)	DEPTH (MD)	THICK. (MD)	DATE SET	EX. NO. OF JOBS	PACKER SET
5"	3002	3765	170	2 3/8"	3113	3113

31. PERFORATION RECORD (Indicate size and depth)

3140-48	3393-97	3711-20
3190-94	3470-80	3746-49
3221-28	3630-34	3753-56
3283-86	3640-46	
3318-33	3644-98	

32. A. PERFORATION RECORD - TIME, SQUEEZE, ETC.

3210-3756 4500 mls acid

33.

DATE FIRST PROD. TEST

Water inj. well

DATE OF TEST

FLOW TUBING PRESS.

34. DISPOSITION OF GAS (used for fuel, etc.)

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing is a true and correct copy of the original report and log.

District Superintendent

1-16-64

APPROVED
JAN 21 1964

SUBMIT IN DUPLICATE

Form approved.
Budget Bureau No. 42-R3555UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:		OIL WELL ☐	GAS WELL ☐	DRY ☐	Other ☒ Injection (Wp)		
b. TYPE OF COMPLETION:		NEW WELL ☐	WORK OVER ☐	DEEP-EN ☒	PLUG BACK ☐	DIFF. RESVR. ☐	Other ☐
2. NAME OF OPERATOR Sinclair Oil & Gas Company							
3. ADDRESS OF OPERATOR 520 E. Broadway, Hobbs, New Mexico							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface 660' Fr S & W lines Sec 4-T179-R31E At top prod. interval reported below At total depth							
14. PERMIT NO.				DATE ISSUED			
15. DATE STUDIED 11-30-63		16. DATE T.D. REACHED 12-15-63		17. DATE COMPI. (Ready to prod.) 12-27-63		18. ELEVATIONS (DE, RKB, RT, GR, ETC.) * 3895 DF	
20. TOTAL DEPTH, MD & TVD 3780		21. PLUG BACK T.D., MD & TVD 3749 PB		22. IF MULTIPLE COMPLET. HOW MANY *		23. INTERVALS DRILLED BY	
24. PRODUCING INTERVAL(S) OF THIS COMPLETION (TOP, BOTTOM, NAME (MD AND TVD) *						25. WAS DIRECTIONAL SURVEY MADE Sur. - 3780	
26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma ray-neutron & Caliper, Gamma Collar							
27. WAS WELL CORED No							
29. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET, MD	HOLE SIZE	CEMENTING RECORD		AMOUNT TULLED	
8 5/8	24	678	10"	100	sacks	None	
7	24	3089	8"	200	sacks	None	
5" (Liner)	11 1/2	3000 - 3780	6"	125	sacks	encore	
29. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SUSPENS. MD	SIZE	DEPTH SET (MD)	FACTOR SET (MD)
5"	3000	3780	125			2979	2979
31. PERFORATION RECORD (Interval, size and num.)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
Grayburg-San Andres: 3158-64; 3198-3210; 3248-59; 3414-26; 3494-3502; 3722-29 with 4 holes per ft. Total of 224 - 3/8" holes				DEPTH INTERVAL (MD) 3158-3502 3722-3729 AMOUNT AND KIND OF MATERIAL - SEE 500 gals. mud acid 500 gals. mud acid			

33. PRODUCTION							
DATE FIRST PRODUCTION							
34. DISPOSITION OF GAS (sold, used for fuel, vented, etc.)							
35. LIST OF ATTACHMENTS							

APPROVED
KBA

District Superintendent

Jan. 6, 1964

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other **Water Injection**
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☒ DEEP-EN ☐ PLUG BACK ☒ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR
Sinclair Oil & Gas Company

3. ADDRESS OF OPERATOR
Box 1920, Hobbs, New Mexico, 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **1980' fr N line and 640' fr W line**
At top prod. interval reported below
At total depth

14. PERMIT NO. DATE ISSUED

15. DATE SPUNDED 16. DATE T.D. REACHED 17. DATE COMPT. (Ready to prod.)
7-12-64 Inject 3850 DF

20. TOTAL DEPTH, MD & TVD 21. PLUG PACK T.D., MD & TVD 22. TO MULTIPLE COMPLE. HOW MANY*
3623' 3498' 1

24. PRODUCING INTERVAL(S) OF THIS COMPLETION (Top, bottom, name, TMD and TVD)*

Injection well

26. TYPE ELECTRIC AND OTHER LOGS RUN
Gamma-Neutron (Water) Collar

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB/FT.	DEPTH SET (MD)	PIPE SIZE	JOINTS, RECD	AMOUNT FILLED
8-5/8"	248	642'		100 Sacks	
7"	207	3097'		200 Sacks	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	3010'	3612'	150 Sks 135 Gal. Loxtex		2-3/8"	3040'	3040

31. PERFORATION RECORD (Interval, size and number)

Jet perf. w/112-3/8" holes, 2 holes per. ft.
Loce Hills 3161-3167' Vacuum 3410-10'
Metex 3209-3215' 3449-35'
Sq. Lake 3244-3252'
Premier 3302-3305', 3331-3334', 3346-3356', 3358-3361' and 3364-3367'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

33. PRODUCTION

DATE FIRST PRODUCTION PRODUCTION METHOD (Flooding, gas lift, pumping - size and type of pump)

Water Injection

DATE OF TEST HOLES TESTED FLOODE SIZE PRODUCED IN TEST PERIOD OIL RE

FLOW, TUBING PRESS. CANNING PRESSURE DAY CANNED 24 HOUR RATE

24. DISPOSITION OF WELL (old, used for fuel, cased, etc.)

25. LIST OF ATTACHMENTS

26. SIGNATURE

27. TITLE

28. DATE

29. SIGNATURE

30. TITLE

31. DATE

32. SIGNATURE

33. TITLE

34. DATE

35. SIGNATURE

5. LEASE DESIGNATION AND SERIAL NO.

Loce Hills 089426 (b)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

H. E. West #3

9. WELL NO.

10

10. FIELD AND POOL, OR WILDCAT

Grayburg Jackson

11. SEC., T. R., M. OR BLOCK AND SURVEY OR AREA

9-178-314 NW/4

12. COUNTY OR PARISH

Edgar

13. STATE

New Mexico

18. ELEVATIONS (DF, RWD, RT, GR, ETC.)*

19. ELEV. CASINGHEAD

ROTARY TOOLS

0

CABLE TOOLS

3623'

25. WAS DIRECT-VAL SURVEY MADE

No

27. WAS WELL CORED

No

District Superintendent

7-14-64

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐		12. COUNTY OR TERRITORY Indy		11. STATE New Mexico	
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☒ PLUG BACK ☐ DEEP-LESSER ☐ Other Water Injection		7. UNIT AGREEMENT NAME			
2. NAME OF OPERATOR Sinclair Oil & Gas Company		8. FARM OR LEASE NAME J. L. Keel "A"			
3. ADDRESS OF OPERATOR P. O. Box 1920, Hobbs, New Mexico		9. WELL NO. 12			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface 660' from North line and 660' from East line At top prod. interval reported below At total depth as above		10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson			
13. PERMIT NO.		DATE ISSUED		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 7-T173-R318 NW PM	
15. DATE SPUNDED 11-6-64	16. DATE T.D. REACHED 11-26-64	17. DATE COMPLETED (Revised) 12-14-64	18. ELEVATIONS OF BENTONITE OR OTHER CEMENT, CASING HEAD 3745' GR	19. FIELD NO. 3011'-3610'	
20. TOTAL DEPTH, MD & TVD 3610'	21. PLUG BACK T.D., MD & TVD 3607'	22. DEPTH OF CEMENT 3610'	23. INTERVALS OF CEMENT 3610'-3610'	24. WAS DIRECTIONAL SURVEY MADE Yes	
25. TYPE ELECTRIC AND OTHER LOGS RUN Camma Ray Neutron Log				26. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)					
CASING SIZE 4-1/2" CD	WEIGHT, LB/FT. 9.58	DEPTH SET (MD) 3610'	HOE SIZE 6"	CEMENTING RECORD 325 Sks.	AMOUNT PULLED
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	PACKER SET (MD)
				2-3/8" CD	2909'
30. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
	2909'	2909'			
31. PERFORATION RECORD (Interval, size and number)					
Notex 2954-2959', 3q. Lake 2990-3000', Vacuum 3177-3188', Jackson 3388-92', 3409-16', 3485-90', 3505-08', 3515-19', 3538-50', 3574-78', 3584-88' w/136 - 3/8" holes.					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
3388'-3588'		1200 gal. HDA			
3177'-3188'		500 gal. HDA			
2990'-3000'		150 gal. HDA			
2954'-2959'		150 gal. HDA			
33. PRODUCTION					
DATE FIRST PROD. 12-14-64 Indy.					
DATE OF TEST					
HOURS TESTED	COOR. S. Z.	TEST POINT	WATER PROD.	GAS PROD.	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)					
35. LIST OF ATTACHMENTS					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED		TITLE District Superintendent		DATE 12-16-64	

*(See Instructions and Spaces for Additional Data on Reverse Side)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.

Las Cruces 029435 (b)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

J. L. Keel "B"

9. WELL NO.

7

10. FIELD AND POOL, OR WILDCAT

Grayburg-Jackson

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 8-T17S-R31E 10PM

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

1a. TYPE OF WELL:

OIL WELL ☐ GAS WELL ☐ DRY ☐ Other **Water Inj. Well**

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☒ PLUG BACK ☐ DEEP REPAIR ☐ Other

2. NAME OF OPERATOR

Sinclair Oil & Gas Company

3. ADDRESS OF OPERATOR

Box 1920, Hobbs, New Mexico, 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 660' fr N line and 1980' fr W line

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

6-1-64

16. DATE T.D. REACHED

6-8-64

17. DATE COMPL. (Ready to prod.)*

6-26-64

18. ELEVATIONS (OF R.R., RT., GR., ETC.)*

3785 CL

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

3381'

21. PLUG, BACK T.D., MD & TVD

3360'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0-3381'

24. INTERVAL(S) OF THIS COMPLETION: TOP, BOTTOM, NAME (MD AND TVD)*

Injection

Loose Hills 2990-97'

Eq. Lake 3075-86'

Premier

3182-88'

Interex

3036-44'

Vacuum 3250-58'

3192-94'

3198-3203'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma Neutron, Caliper and Gamma Collar Logs

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4" OD	32.75#	600'	12"	100 sz	
7" OD	26#	2915'	9"	200 sz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2" OD	2833'	3381'	125 sacore		2-3/8"	2889'	2889'
			125 Gal. Laytex				

31. PERFORATION RECORD (Interval, size and number)

2990-97'
3036-44'
3075-86'
3182-88'
3192-94'

3198-3203'
3250-58'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2990'-3258'	2250 Gals. Acid

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)				WELL STATUS (Producing or shut-in)	
Water Inj. Well							
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N FOR TEST PERIOD	OL. BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO
			→				
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OL. BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY-API (CORR.)	
		→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

District Superintendent

DATE

6-29-64

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPL

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. Las Cruces 029435 (b)	
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☒ PLUG BACK ☐ DIFF. RESVR. ☐ Other Water Injection		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Sinclair Oil & Gas Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 1920, Hobbs, New Mexico		8. FARM OR LEASE NAME J. L. Keel "B"	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980' from North line and 660' from West line At top prod. interval reported below At total depth as above		9. WELL NO. 17	
10. FIELD AND POOL OR WILDCAT Grayburg-Jackson		11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA Sec. 8-T173-R31E NM PM	
12. COUNTY OR PARISH Eddy		13. STATE New Mexico	
15. DATE SPUNDED 10-21-64	16. DATE TO BE REACHED 11-4-64	17. DATE COMPLETION 12-7-64	18. ELEVATIONS (I. F. R. B. R. E. G. E. L. E. T. C.)* 3738' GR
20. TOTAL DEPTH, MD & TVD 3615'	21. PLUG BACK T.D., MI & TVD 3613'	22. IF MULTIPLE COMPLET. HOW MANY*	23. INTERVALS PRODUCED BY 3286-3615'
24. PRODUCING INTERVAL(S) OF THIS COMPLETION--TOP BOTTOM, NAME (MD AND TVD)* Injection - 2965'-3601' Grayburg Jackson			25. WAS DIRECTIONAL SURVEY MADE Yes
26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Ray Neutron			27. WAS WELL COILED No
28. CASING RECORD (Report all strings set in well)			
CASING SIZE 4-1/2" ID	WEIGHT, LB/FT. 9.5#	DEPTH SET (MD) 3615'	JOINTS 6"
CEMENTING DEPTH 3-25 hrs.		AMOUNT CEMENT	
29. LINER RECORD			
SIZE 2-3/8"	TOP (MD) 2919'	BOTTOM 2919'	PACKER SET (MD)
30. TUBING RECORD			
SIZE 2-3/8"	DEPTH SET (MD) 2919'	PACKER SET (MD) 2919'	
31. PERFORATION RECORD (If known, give size and number)			
(Perforated 2 - 1/2" holes/ft. selectively from 2965-3601' for total of 160 holes.)			
2965-71', 3006-11', 3115-22', 3125-28', 3136-40', 3192-3201', 3416-20', 3431-35', 3471-24', 3488-3492', 3503-06', 3516-20', 3523-26', 3537-40', 3546-50', 3560-64', 3583-88', 3589-92', 3596-3601'	32. INTERVALS 3471-3601', 3192-3201', 3115-3140', 3006-3011'	33. AMOUNT SQUEEZE CEMENT SQUEEZE, ETC. 5,000 gals. BDA, 500 gals. BDA, 500 gals. KA, 150 gals. KA	
34. PRODUCTION METHOD (If known, give type of pump, etc. and type of pump) Water Injection			
35. DATE FIRST TEST 12-7-64			
36. DATE OF TEST 12-7-64			
37. FLOW, TUBING PRESS., CANNED PRESS. IN, CANNED RATE, 24 HOUR RATE Water Injection			
38. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
39. LIST OF ATTACHMENTS			
40. I hereby certify that the foregoing is a true and correct copy of all available records			
SIGNED Crig & Jones, Artesia		TITLE District Superintendent	
DATE 12-14-64		DATE 12-14-64	

*(See Instructions and Spaces for Additional Data on Reverse Side)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

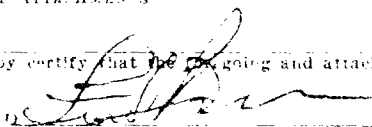
SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. Las Cruces 029435 (b)	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐ Water Injection		6. INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Sinclair Oil & Gas Company		7. PERMIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 1920, Hobbs, New Mexico		8. FARM OR LEASE NAME J. L. Keel "B"	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface 1980' from the South line and 1980' from West line At top prod. interval reported below At total depth as above		9. WELL NO. 29	
10. FIELD AND POOL OR WILDCAT Grayburg-Jackson		11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA 8-T173-R315 NM PM	
12. COUNTY OR PARISH Eddy		13. STATE New Mexico	
15. DATE SPUNDED 10-28-64	16. DATE T.D. REACHED 11-12-64	17. DATE COMPLETION (Party to report) 11-19-64 Inj.	18. ELEVATION (IDE, EBB, RT, OR ETC.) 3713.1 GR
20. TOTAL DEPTH, MD & TVD 3700'	21. PLUG BACK T.D., MD & TVD 3697'	22. DE. W/THIE COME. HOOD, STANT	23. INTERVALS ORDERED BY 0 - 3700'
24. LOGGING INTERVALS, OF THIS COMPLETION, TOP, BOTTOM, SAGE, AND TAP Inj. - Jackson 3470-311', 3525-341', 461', 501', 551', 581', 781', 341', 901', 3606', 101', 241'; Metex 2996-3004', Sq. Lake 3032-3044', Premier 3140-3145', 3149-3153', 3166-3170', Vacuum 3227-341', 3238-461'. Jackson 3637'-461', 531', 601'.			25. WAS FERTILIZATION SURVEY MADE Yes
26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Neutron Collar Log.			27. WAS WELL CURED Yes
28. CASING RECORD (Report all strings set in well)			
CASING SIZE 8-5/8"	WEIGHT LB. FT. 24.7	DEPTH SET (MD) 553'	HOE SIZE 11"
4-1/2"	9.5#	3700'	6-3/4"
29. LINER RECORD			
SIZE None	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
30. TUBING RECORD			
SIZE 2-3/8"	DEPTH SET (MD) 2948'	PACKED (FT. MD) 2948'	
31. PERFORATION RECORD (Interval, size and number)			
2996' to 3660' w/236 - 3/8" holes			
32. FLUID SHOT FRACURE CEMENT SQ. FEET			
DEPTH INTERVAL (MD)			
AMOUNT AND KIND OF MATERIAL SET			
3470-3660' 2250 gal. BDA			
3227-3246' 500 gal. BDA			
2996-3004' 250 gal. MA			
3140-3170' 750 gal. MA			
3032-3044' 250 gal. MA			
33. PRODUCTION METHOD (Flowing, gas lift, pumping, etc. and type of pump)			
Water Injection			
DATE FIRST PRODUCTION Inj. 11-19-64			
WELL STATUS (Producing or shut-in) Injecting			
34. DISPOSITION OF GAS (Used for fuel, vented, etc.)			
TEST WITNESSED BY			
35. LIST OF ATTACHMENTS			

I hereby certify that the foregoing and attached information is a complete and correct as determined from all available records.

TITLE **District Superintendent**DATE **11-20-64**

* (See Instructions and Spaces for Additional Data on Reverse Side)

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.

Las Cruces 029126 (b)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

H. E. West "B"

9. WELL NO.

14

10. FIELD AND POOL, OR WILDCAT

Grayburg Jackson

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

10-7175-R31L MM PM

1a. TYPE OF WELL: 7 OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other Dual Water Inj.

2. NAME OF OPERATOR
Sinclair Oil & Gas Company

3. ADDRESS OF OPERATOR
P. O. Box 1920, Hobbs, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements):
At surface 1980' from the South line and 1980' from the West line

At top prod. interval reported below

At total depth Same as above

14 PERMIT NO. DATE ISSUED

12. COUNTY OR PARISH

Lddy

13. STATE

New Mexico

15. DATE SPUNDEL 16. DATE T.D. REACHED 17. DATE COMPI. (Ready to prod.) 18. ELEVATIONS (OD, BKB, LT, GR, ETC.) 19. ELEV. CASINGHEAD

6-1-65

Inj.

3907' DP

20. TOTAL DEPTH, MD & TVD 21. PLUG BACK T.D., MD & TVD 22. IF MULTIPLE COMPI., HOW MANY? 23. INTERVALS DRILLED BY 24. INTERVAL(S), OF THIS COMPLETION: TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

3632'

3343-51' Motex, 3496-3500', 3505-13' and 3526-37' Premier, 3380-96' Square Lake and 3563-3632' Vacuum.

26. TYPE ELECTRIC AND OTHER LOGS RUN

None

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8" CD	24.8	762'		100 sks.	-
7" CD	20.8	3563'		100 sks.	-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8" OD	3368'	3368'

31. PERFORATION RECORD (Interval, size and number)

Motex 3343-51', Premier 3496-3500', 3505-13' and 3526-37' w/124 - 3/8" holes.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3343-51'	500 gals. MA
3496-3537'	750 gals. MA

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping size and type of pump)				WELL STATUS (Producing or shut in)	
6-1-65		Water Injection				Injecting	
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD. OR TEST FAILED	AS	WATER PROD.	GAS-OIL RATIO	
FLOW, TUBING PRESS.	CASING PRESSURE	ACTUATED 24-HOUR RATE			WATER PROD.	DIL. GRAVITY (API) (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

35. LIST OF ATTACHMENTS

36. I hereby certify that the data and attached information are a true and correct copy of the original records.

SIGNED

TITLE

Superintendent

DATE

6-2-65

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:		OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐		UNIT AGREEMENT NAME	
b. TYPE OF COMPLETION:				7. FARM OR LEASE NAME	
NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other <u>Dual Water Inj.</u>				H. L. West "B"	
2. NAME OF OPERATOR				9. WELL NO.	
Sinclair Oil & Gas Company				17	
3. ADDRESS OF OPERATOR				10. FIELD AND POOL, OR WILDCAT	
P. O. Box 1920, Hobbs, New Mexico				Crayburg Jackson	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA	
At surface 1980' from South line and 660' from East line				9-T173-R31K	
At top prod. interval reported below					
At total depth Same as above					
14. PERMIT NO.		DATE ISSUED		12. COUNTY OR PARISH	
				Eddy	
				New Mexico	
15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD	
		6-1-65 Inj.	3889 GR		
20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL. HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
3670'	3628'				
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*				25. WAS DIRECTIONAL SURVEY MADE	
Injection 3296-3302' Metex, 3332-36' Square Lake, 3466-3500' Premier, 3613-3624' Lovington.				No	
26. TYPE ELECTRIC AND OTHER LOGS RUN				27. WAS WELL CORED	
None				No	
28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOIF SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4" OD	32.75#	747'		100 sks.	VED
5-1/2" OD	14, 15.5417#	3670'		100 sks.	965
29. LINER RECORD			30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE
					3422'
			2-3/8" OD 3422'		
31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
Metex 3296-3302', Premier 3466-69', 3491-3495' and 3497-3500', Lovington 3613-17' and 3619-44' w/100 - 3/8" holes.			DEPTH INTERVAL (MD)		
			3613-3624'		
			3466-3500'		
			3296-3302'		
			AMOUNT AND KIND OF MATERIAL USED		
			500 gals. NA		
			500 gals. FA		
			500 gals. NA		
33. PRODUCTION					
DATE FIRST <u>6-1-65</u> Inj.		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut in)
		Dual Water Injection			Injecting
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD. FOR TEST PERIOD	OIL - BBL.	GAS - MCF.
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	GAS - MCF.	WATER - BBL.	OIL GRAVITY-API (CORR.)
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)				TEST WITNESSED BY	
35. LIST OF ATTACHMENTS					
36. I hereby certify that the foregoing report when information is complete and correct is determined from all available records					
SIGNED <u>[Signature]</u>		TITLE <u>Superintendent</u>		DATE <u>6-2-65</u>	

*** (See Instructions and Spaces for Additional Data on Reverse Side)**

Order No: USGS Antenna, no: Regional Office, no: A10

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLI 3*

(See other in-
structions on
reverse side)Form approved
Budget Bureau No. 42-R355.5.5. LEASE DESIGNATION AND SERIAL NO.
Las Cruces 029426 (b)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT INTEREST NAME

8. FARM OR LEASE NAME

E. E. West "B"

9. WELL NO.

19

10. FIELD AND POOL, OR WILDCAT

Grayburg-Jackson Pool11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA**Sec. 10-T-178-R-31E NWPM**

12. COUNTY OR

Big Horn

13. STATE

New Mexico

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other **Injection (Water)**

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☒ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR

Simclair Oil & Gas Company

3. ADDRESS OF OPERATOR

520 E. Broadway, Hobbs, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface **660' from North Line and 1980' from West Line
Sec. 10-T-178-R-31E, Eddy Co., New Mexico**

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

2-28-64

16. DATE T.D. REACHED

3-6-64

17. DATE COMPL. (Ready to prod.)

3-13-64

18. ELEVATIONS (DF, RKB, RT, OR, ETC.)*

3934' O.L.

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

3585'

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

3501'-3585'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Water Injection Well25. WAS DIRECTIONAL
SURVEY MADE**No**

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT CEMENTED
10-3/4"	32.75	785'	12 1/2"	100 sks.	
5-1/2"	15.58	3501'	7"	100 sks.	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					2-3/8"	3466'	3466'

31. PERFORATION RECORD (Interval, size and number)

**Premier
3501-3585' (Open Hole)
Squaw Lake
3438-41' and 3422'-30'
Mottex 3378-89'- 28-1/2" holes includes SQ LK**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3438-41' & 3378'-79'	350 Gals. acid
3501-3585'	100 Gals. mud acid

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
Water Injection well							
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PRODN. TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY API (CORR.)	
		→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED

TITLE

District Superintendent

DATE

4-7-64

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

See other instructions on reverse side

Form approved
Budget Bureau No. 42 R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other Water Injection		5. LEASE DESIGNATION AND SERIAL NO. Las Cruces 029426 (b)	
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☒ PLUG BACK ☐ DICE RESER. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Sinclair Oil & Gas Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 520 E. Broadway, Hobbs, New Mexico		8. FARM OR LEASE NAME H. A. West "B"	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980' from South and West Lines of Sec. 3-T17S-R31E Eddy Co., New Mexico. At top prod. interval reported below At total depth		9. WELL NO. 23	
10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson Pool		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 3-T17S-R31E NMPM	
12. COUNTY OR PARTIAL Eddy		13. STATE New Mexico	
14. PERMIT NO.	DATE ISSUED	15. DATE SPUNDED 3-8-64	
16. DATE T.D. REACHED 3-21-64	17. DATE COMPLETION (Ready to produce) 3-29-64	18. PRODUCTION (G.P.M.) Inject	19. ELEV. CASINGHEAD 3948 G.L.
20. TOTAL DEPTH, MD & TVD 3557'	21. PLUG, BACK T.D. MD & TVD 3454'	22. G. L. DEPTH COMPLETION Dual Wtr Inj.	23. INTERVALS (KILFEEDS) 3454'-3557'
24. PRODUCING INTERVAL(S) OF THIS COMPLETION (Production name and type) Injection well		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN None		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	CEMENTING RECORD
8-5/8"	44#	797'	100 sks.
5"	11.5#	3456'	100 sks.
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SCREEN (MD)
None			
30. TUBING RECORD			
SIZE	TOP SET (MD)	BOTTOM SET (MD)	SCREEN SET (MD)
2-3/8"	3443'	3447'	
31. PERFORATION RECORD (Interval, size and number)			
Premier Formation 3456-3557' (Open Hole) Metex Formation 3374-84' w/ 20-1/2" holes SquareLake Formation 3413-21' and 3429-35' 56-1/2" holes		32. ACID, SHOT, FRACTION, CEMENT SQUEEZE, ETC.	
		DEPTH INTERVAL (MD)	
		250 Gal. acid	
		250 Gal. acid	
		3413-21' and 3429-35'	
33. PRODUCTION			
DATE FIRST PRODUCTION Water Injection		PRODUCTION METHOD (Flowing, on lift, pumping - size and type of pump)	
DATE OF TEST		HOURS TESTED	
FLOW TUBING PRESS.		Casing PRESS.	
WATER BEH.		GAS-OIL RATIO	
OIL QUANTITY API CORR.			
34. DISPOSITION OF GAS, SOLID, AND OTHER BY-PRODUCTS			
35. LIST OF ATTACHMENTS			
36. I hereby certify that the foregoing report is true and correct as shown and is in accordance with the provisions of the Act of October 3, 1917, as amended.			
SIGNER		District Superintendent	
		4-7-64	

* (See Instructions and Form 9-330, Additional Form on Reverse Side)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42 R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

Las Cruces 029435 (b)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESUR. ☐ Other Water Injection

2. NAME OF OPERATOR

Sinclair Oil & Gas Company

3. ADDRESS OF OPERATOR

P. O. Box 1920, Hobbs, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 660' from East line and 1980' from South line

At top prod. interval reported below

At total depth

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

J. L. Keel "B"

9. WELL NO.

28

10. FIELD AND POOL, OR WILDCAT

Grayburg-Jackson

11. SECTION, T. R. M. OR BLOCK AND SURVEY OR MAP

8-T178-2314 NM PM

12. COUNTY OR TERRITORY

Eddy

13. STATE

New Mexico

15. DATE SPUNDED 10-23-64 16. DATE T.D. REACHED 11-3-64 17. DATE COMPLETION (Ready to produce) 11-10-64 18. ELEVATIONS (T.D., R.S.D., RT., GR., ETC.) 3821' GR. 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 3800' 21. PLUG, PACK T.D., MD & TVD 22. DE. TO TOP OF COMPLETION H. V. MANY* 23. INTERVALS DRILLED 0-3800'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION: (For bottom name (MD and TVD)*)

Inject. Motex 3118-46', Square Lake 3155-60', Premier 3258-75', Vacuum 3331-47', Jackson 3613-3800'.

25. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma Ray - Neutron

26. WAS DEFORMATION SURVEY MADE

Yes

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in section)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	DE. SET (MD)	CONVENTING RECORD	AMOUNT PULLED
8-5/8"	24.8	550'	11"	225 Sks.	
4-1/2"	9.58	3800'	6-3/4"	360 Sks.	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	JOINTS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					2-3/8" CD	3069'	3069'

31. PERFORATION RECORD (Interval, size and number)

Motex 3118-46', Square Lake 3155-60', Vacuum 3331-47', Premier 3258-75', 3272-75', Jackson 3613-18', 3670-75', 3684-91', 3712-26', 3728-45', 3752-56', 3759-66', 3788-99', 3798-3800' w/190 3/8" holes.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD) 3118-3800' AMOUNT AND KIND OF MATERIAL USED 24.50 gals. HA

33. PRODUCTION

DATE FIRST PRODUCTION 11-10-64 PRODUCT & METHOD (Injection, gas lift, pumping, etc.) and type of pump Water Injection

WELL STATUS (Producing or shut in) Injecting

DATE OF TEST FLOW TESTED CHECK SIZE 1" TO 2" PERIOD WATER RATIO GAS-OIL RATIO

FLOW, TUBING PRESS. CAS. N. PRESS. RE. CALC. RATE 24-HR. RATE

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

35. NAME OF ATTACHMENT

36. I hereby certify that the data on this report were obtained from the well logs and other reliable sources.

SIGNED _____

District Superintendent

11-11-64

OPERATOR'S COPY

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

Form approved
Budget Bureau No. 42-R355.5.

(See other
Instructions
reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. Lao Cruces 029426 (a)	
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other Injection		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Sinclair Oil & Gas Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 1920, Hobbs, New Mexico		8. FARM OR LEASE NAME H. A. West "A"	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements): At surface 900' from north line and 1510' from west line of Sec. 3-T17S-R31E, Eddy County., New Mexico At top prod. interval reported below At total depth		9. WELL NO. 13	
10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 3-T17S-R31E	
12. COUNTY OR Eddy		13. STATE New Mexico	
15. DATE SPUDDED 10-11-64	16. DATE T.D. REACHED 10-27-64	17. DATE COMPL. (Ready to produce) 10-31-64	18. ELEVATION (OF RNB, RT, GR, ETC.) * 3700'
20. TOTAL DEPTH, MD & TVD 3700'	21. PLUG BACK T.D., MD & TVD 3695'	22. IF MULTIPLE COMPLET. HOW MANY *	23. INTERVALS DRILLED BY 0-3700'
24. INTERVAL(S) OF THIS COMPLETION: TOP, BOTTOM, NAME (MD AND TVD) * Injection Square Lake 3419-428', Premier 3474-78', 3500-3503', 3513-3517', 3537-3539', 3542-45', Lovington 3671-3686'.			25. WAS DIRECTIONAL SURVEY MADE Yes
26. TYPE ELECTRIC AND OTHER LOGS RUN Omniray Neutron Collar			27. WAS WELL CORED Yes
28. CASING RECORD (Report all strings set in well)			
CASING SIZE 8-5/8" OD 4-1/2"	WEIGHT, LB/FT. 24 9.5	DEPTH SET (MD) 335' 3700'	HOLE SIZE 11" 6-3/4"
CEMENTING RECORD 220 sacks, 2 1/2 bags 320 sacks, 4 1/2 bags		AMOUNT PULLED	
29. LINER RECORD			
SIZE 2-3/8"	TOP (MD) 3385'	BOTTOM (MD) 3385'	PACKER SET (MD) 3385'
30. TUBING RECORD			
31. PERFORATION RECORD (Interval, size and number) 2 shots per ft. 1/2" jet (80 holes), 3419-3428' Square Lake, 3474-78', 3500-3503', 3513-17', 3537-39' Premier, 3542-45' Premier, 3671-86' Lovington.			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE ETC. PERFORATION INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 3671-3686' 500 gals. FA 3474-3545' 650 gals. FA 3419-3428' 250 gals. FA			
33. PRODUCTION DATE FIRST PRODUCTION 10-31-64 PRODUCTION METHOD Flowing gas lift, pumping - gas lift type of pump WELL STATUS (Producing or shut-in) Injecting			
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	GAS OIL RATIO
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
35. LIST OF ATTACHMENTS Directional Survey			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED [Signature]		TITLE District Superintendent	
DATE 11-3-64		DATE	

Originals: 0005; cc: (See Instructions and Spaces for Additional Data on Reverse Side)

OPERATOR'S COPY

SUBMIT IN DUPLICATE*

Form approved.
Budget Bureau No. 42 R255.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(See other in
series on
reverse side)

LEASE DESIGNATION AND SERIAL NO.

Las Cruces 029426(b)

IF NEWMAN ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: ☐ OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER **Water Injection**

b. TYPE OF COMPLETION:
NEW WELL ☒ WORK OVER ☐ DEEP EN ☐ PLUG BACK ☐ DIFF. LVSVD ☐ OTHER

2. NAME OF OPERATOR

Sinclair Oil & Gas Company

3. ADDRESS OF OPERATOR

520 East Broadway, Hobbs, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with applicable requirements)

At surface **660' fr. N&E lines of Sec. 9-T17S-R31E**

At top prod. interval reported below

At total depth

7. UNIT AGREEMENT NAME

8. NAME OF LEASE NAME

H. B. West "B"

9. WELL NO.

28

10. FIELD AND POOL OR RESERVOIR

Grayburg-Jackson

11. SECTION, TOWNSHIP, RANGE AND SURVEY OF AREA

Sec. 9-T17S-R31E NMPM

12. COUNTY OF

Eddy

N.M.

13. DATE OF REPORT

14. DATE OF REVISION

11-27-63

12-14-63

12-29-63

3909 CR

20. TOTAL DEPTH, MD & TVD

3850

24. PRODUCING INTERVALS OF THIS COMPLETION—TOP BOTTOM NAME AND DEPTH

0-3850

Water Injection Well

26. TYPE OF LOGS AND OTHER LOGS RUN

Gamma Ray-M neutron & Caliper

Yes

27. CASING RECORD (Report all strings run in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HO. I. SIZE	END USE REPORT	REMARKS
8 5/8	24#	550	10"	240 sacks reg.	None
5 1/2	14#	3850	7"	300 sacks annular	None

28. LINER RECORD

SIZE	DEPTH SET (MD)	DEPTH SET (TVD)	REMARKS
2 3/8"	3220	3220	

29. PERFORATION RECORD (List hole size and depth)

3289-92; 3333-39; 3424-28; 3440-45; 3473-75;		
3749-54; 3765-68; 3773-75; 3777-81; 3842-49	3842-49	500 gals BDA
Total of 82 holes.	3749-3781	500 gals BDA
	3424-3745	500 gals Mud Acid
	3289-3339	500 gals Mud Acid

30. DATE FIRST PRODUCTION

Water Injection Well

31. DATE OF TEST

32. SIGNATURE OF OPERATOR

33. SIGNATURE OF GEOLOGICAL SURVEY REPRESENTATIVE

34. SIGNATURE OF LEASEE

35. SIGNATURE OF OTHER PARTY

36. SIGNATURE OF OTHER PARTY

37. SIGNATURE OF OTHER PARTY

38. SIGNATURE OF OTHER PARTY

39. SIGNATURE OF OTHER PARTY

40. SIGNATURE OF OTHER PARTY

41. SIGNATURE OF OTHER PARTY

42. SIGNATURE OF OTHER PARTY

43. SIGNATURE OF OTHER PARTY

44. SIGNATURE OF OTHER PARTY

Orig. & cc: USGS

cc: OCC-Artesia, RPS, File (2)

SUBMIT IN DUPLICATE*

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.PH 1 06
JAN 1965

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL ☐	GAS WELL ☐	DRY ☐	Other <u>Water Injection</u>		
b. TYPE OF COMPLETION:		NEW WELL ☐	WORK OVER ☐	DEEP-EN ☐	PLUG BACK ☐	DIFF. RESER. ☐	Other <u>Convert to WI</u>
2. NAME OF OPERATOR						Sinclair Oil & Gas Company	
3. ADDRESS OF OPERATOR						Box 1920, Hobbs, New Mexico, 88240	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirement.)							
At surface <u>660' from North Line & 1980' from the West Line</u>							
At top prod. interval reported below							
At total depth							
11. PERMIT NO.		DATE INSULD		12. COUNTY OR PARISH		13. STATE	
				Eddy		New Mexico	
15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPI. (Ready to prod.)	18. ELEVATIONS (DF, RNB, RT, CR, ETC.)*		19. LEV. CASINGHEAD		
12-11-63	12-29-63	1-22-64	3902 CR				
20. TOTAL DEPTH, MD & TVD	21. PLUG. BACK T.D., MD & TVD	22. IF MULTIPLE COMPI., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS		
3810	3600			0-3810			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION (TOP, BOTTOM, NAME (MD AND TVD)*)						25. WAS DIRECTIONAL SURVEY MADE	
						Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN						27. WAS WELL CORDED	
Gamma-Neutron & Caliper						Yes	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB/FT.	DEPTH SET (MD)	PIPE SIZE	CEMENTING RECORD		AMOUNT PULLED	
8 5/8"	24#	559	10"	240 sacks		None	
5 1/2"	14#	3810	7"	300 sacks		None	
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
Open - 3232-38, 3274-79, 3332-35, 3358-61, & 3443-62.				DEPTH INTERVAL (MD)			
Plugged Off by plug - set at 3600'				3232-3804			
3691-3702, 3756-62, 3798-3804.				AMOUNT AND KIND OF MATERIAL USED			
				3000 gal. acid			
33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)				WELL STATUS (Producing or shut-in)	
						Water Injection	
DATE OF TEST	HOURS TESTED	CHOKED SIZE	LOGDN. FOR TEST PERIOD	OIL (BBL)	GAS (CU FT)	WATER (BBL)	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	CHOKED SIZE	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						35. WITNESSED BY	
36. LIST OF ATTACHMENTS							
Form 9-331							
I hereby certify that the foregoing well completion information is complete and correct as determined from all available records.							
SIGNED				TITLE		DATE	
				Superintendent		4-12-65	



STATE OF NEW MEXICO
STATE ENGINEER OFFICE
SANTA FE

S. E. REYNOLDS
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, NEW MEXICO 87501

November 4, 1965

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Attn. Mr. Jim Kapteina

Dear Jim:

Reference is made to our telephone conversation pertaining to the letter of Sinclair Oil Company dated November 2, 1965 which submitted a diagrammatic sketch of the wells in their Keel-West Waterflood Project.

I have reviewed my letter of September 28th and previous correspondence concerning this matter and it now appears to me that in view of the fact that Sinclair has given no indication in their letter of November 2, 1965, or in their schematic drawings that their "West A-13" well is expected to be converted to a dual injector, they have accepted the proviso in my letter of September 28, 1965.

FEI/ma

Yours truly,

S. E. Reynolds
State Engineer

By:

Frank E. Irby

Frank E. Irby
Chief

Water Rights Div.